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RAW SEQUENCE LISTING

DATE: 02/04/2003

PATENT APPLICATION: US/10/007,621D

TIME: 13:47:20

Input Set : A:\EP.txt

Output Set: N:\CRF4\02042003\J007621D.raw

3 <110> APPLICANT: Visigen Biotechnologies, Inc.

5 <120> TITLE OF INVENTION: Enzymatic Nucleic Acid Synthesis: Compositions and Methods for Altering

6 Monomer Incorporation Fidelity

8 <130> FILE REFERENCE: 00007/02PCT

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/007,621D

11 <141> CURRENT FILING DATE: 2001-12-03

13 <150> PRIOR APPLICATION NUMBER: 60/250,764

14 <151> PRIOR FILING DATE: 2000-12-01

16 <160> NUMBER OF SEQ ID NOS: 9

18 <170> SOFTWARE: PatentIn version 3.1

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 7

22 <212> TYPE: DNA

23 <213> ORGANISM: Artificial

25 <220> FEATURE:

26 <223> OTHER INFORMATION: The sequences listed here are artificially generated DNA sequences

27 synthesized to test fidelity of monomer incorporation due to sub

28 stitution at the gamma phosphate of the dNTPs.

30 <220> FEATURE:

W--> 31 <221> NAME/KEY: Oligonucleotide

32 <222> LOCATION: (1)..(7)

33 <223> OTHER INFORMATION: An example of an oligonucleotide discussed the in the definition

34 section of the application.

37 <400> SEQUENCE: 1

38 atgcctg

41 <210> SEQ ID NO: 2

42 <211> LENGTH: 19

43 <212> TYPE: DNA

44 <213> ORGANISM: Artificial

46 <220> FEATURE:

47 <223> OTHER INFORMATION: This sequence is a primer strand for Taq DNA polymerase.

49 <220> FEATURE:

50 <221> NAME/KEY: primer_bind

51 <222> LOCATION: (1)..(19)

52 <223> OTHER INFORMATION: Primer strand for Taq DNA polymerase

55 <400> SEQUENCE: 2

56 ggtactaagc ggccgcatg

59 <210> SEQ ID NO: 3

60 <211> LENGTH: 20

61 <212> TYPE: DNA

62 <213> ORGANISM: Artificial

19

64 <220> FEATURE:

65 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi

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```

66      th the addition of a T residue at the end of the strand designate
67      d BOT-T 3'.
69 <220> FEATURE:
W--> 70 <221> NAME/KEY: Template
71 <222> LOCATION: (1)..(19)
72 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
75 <400> SEQUENCE: 3
76 ccatgattcg ccggcgctact                                20
79 <210> SEQ ID NO: 4
80 <211> LENGTH: 20
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi
86      th the addition of a C residue at the end of the strand designate
87      d BOT-C 3'.
89 <220> FEATURE:
W--> 90 <221> NAME/KEY: Template
91 <222> LOCATION: (1)..(19)
92 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
95 <400> SEQUENCE: 4
96 ccatgattcg ccggcggtacc                                20
99 <210> SEQ ID NO: 5
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial
104 <220> FEATURE:
105 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi
106     th the addition of a G residue at the end of the strand designate
107     d BOT-G 3'.
109 <220> FEATURE:
W--> 110 <221> NAME/KEY: Template
111 <222> LOCATION: (1)..(19)
112 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
115 <400> SEQUENCE: 5
116 ccatgattcg ccggcggracg                                20
119 <210> SEQ ID NO: 6
120 <211> LENGTH: 20
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial
124 <220> FEATURE:
125 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi
126     th the addition of a A residue at the end of the strand designate
127     d BOT-A 3'.
129 <220> FEATURE:
W--> 130 <221> NAME/KEY: Template
131 <222> LOCATION: (1)..(19)
132 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
135 <400> SEQUENCE: 6

```

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136 ccatgattcg ccggcgtaca                                20
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 23
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi
146      th the addition of a TAG residues at the end of the strand design
147      ated BOT-Sau 3'.
149 <220> FEATURE:
W--> 150 <221> NAME/KEY: Template
151 <222> LOCATION: (1)..(19)
152 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
155 <400> SEQUENCE: 7
156 ccatgattcg ccggcgtacc tag                                23
159 <210> SEQ ID NO: 8
160 <211> LENGTH: 21
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial
164 <220> FEATURE:
165 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi
166      th the addition of a TC residues at the end of the strand designa
167      ted BOT-TC 3'.
169 <220> FEATURE:
W--> 170 <221> NAME/KEY: Template
171 <222> LOCATION: (1)..(19)
172 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
175 <400> SEQUENCE: 8
176 ccatgattcg ccggcgtact c                                21
179 <210> SEQ ID NO: 9
180 <211> LENGTH: 23
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Template Strand - antisense to the primer strand of sequence
2 wi
186      th the addition of a TTTC residues at the end of the strand desig
187      nated BOT-3TC 3'.
189 <220> FEATURE:
W--> 190 <221> NAME/KEY: Template
191 <222> LOCATION: (1)..(19)
192 <223> OTHER INFORMATION: Anti-sense to the primer sequence 2.
195 <400> SEQUENCE: 9
196 ccatgattcg ccggcgtact ttc                                23

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/007,621D

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9

VERIFICATION SUMMARY

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Input Set : A:\EP.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:31 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:70 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:90 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:110 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:130 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:150 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:170 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:190 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9